

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3352582	window near\$5 shap\$3 near\$5 signal same frequency same carrier	US-PGPUB; USPAT	OR	ON	2007/04/25 08:52
L2	3185232	generat\$3 adj5 window near\$5 shap\$3 near\$5 signal same frequency same carrier	US-PGPUB; USPAT	OR	ON	2007/04/25 08:52
L3	3181007	generat\$3 adj1 window near\$5 shap\$3 near\$5 signal same frequency same carrier	US-PGPUB; USPAT	OR	ON	2007/04/25 08:53
L4	1571231	generat\$3 adj1 window adj1 shap\$3 near\$5 signal same frequency same carrier	US-PGPUB; USPAT	OR	ON	2007/04/25 08:53
L5	0	generat\$3 adj1 window adj1 shap\$3 adj1 signal same frequency same carrier	US-PGPUB; USPAT	OR	ON	2007/04/25 08:53
L14	0	generat\$3 adj1 window adj1 shap\$3	US-PGPUB; USPAT	OR	ON	2007/04/25 08:56
L15	4	window adj1 shap\$3 same frequency same carrier	US-PGPUB; USPAT	OR	ON	2007/04/25 09:05
L16	28	window near5 shap\$3 same frequency same carrier	US-PGPUB; USPAT	OR	ON	2007/04/25 09:05
L21	5614	(RF or (radio adj frequency)) near4 switch same uwb or (ultra adj wide and band\$1) or (utlra adj wideband\$1) or ultrawideband or carrier-free or carrierless or (impulse near4 communication)	US-PGPUB; USPAT	OR	ON	2007/04/25 12:54
L22	0	21 and (CMOS) near2 transsistors	US-PGPUB; USPAT	OR	ON	2007/04/25 12:33
L23	375	21 and (CMOS)	US-PGPUB; USPAT	OR	ON	2007/04/25 12:33
L24	5	23 and (455/62)	US-PGPUB; USPAT	OR	ON	2007/04/25 12:34
L25	26	(RF or (radio adj frequency)) near4 switch same (uwb or (ultra adj wide and band\$1) or (utlra adj wideband\$1) or ultrawideband or carrier-free or carrierless or (impulse near4 communication))	US-PGPUB; USPAT	OR	ON	2007/04/25 12:53
L26	12	25 and (CMOS)	US-PGPUB; USPAT	OR	ON	2007/04/25 12:40
L27	3	(RF or (radio adj frequency)) near3 switch same (multiple or plurality or two) near4 CMOS	US-PGPUB; USPAT	OR	ON	2007/04/25 12:59

## EAST Search History

L28	192	(RF or (radio adj frequency) adj switch) same (CMOS near2 transistor\$1)	US-PGPUB; USPAT	OR	ON	2007/04/25 13:05
L29	2	28 and (uwb or ultra\$1wideband or carrier\$1free or carrierless)	US-PGPUB; USPAT	OR	ON	2007/04/25 13:03
L30	0	28 and (455/62)	US-PGPUB; USPAT	OR	ON	2007/04/25 13:05
L31	0	28 and (375/130)	US-PGPUB; USPAT	OR	ON	2007/04/25 13:05
L32	4	(RF or (radio adj frequency) adj switch) same ((three or plural\$3 or multiple or several) near3 (CMOS near2 transistor\$1))	US-PGPUB; USPAT	OR	ON	2007/04/25 13:09
L33	1	((RF or (radio adj frequency)) adj switch) same ((three or plural\$3 or multiple or several) near3 (CMOS near2 transistor\$1))	US-PGPUB; USPAT	OR	ON	2007/04/25 13:08
L34	4	(RF or (radio adj frequency) near2 switch) same ((three or plural\$3 or multiple or several) near3 (CMOS near2 transistor\$1))	US-PGPUB; USPAT	OR	ON	2007/04/25 13:10
L35	1	((RF or (radio adj frequency)) near2 switch) same ((three or plural\$3 or multiple or several) near3 (CMOS near2 transistor\$1))	US-PGPUB; USPAT	OR	ON	2007/04/25 13:10
L36	1	((RF or (radio adj frequency)) same switch) same ((three or plural\$3 or multiple or several) near3 (CMOS near2 transistor\$1))	US-PGPUB; USPAT	OR	ON	2007/04/25 13:11
L37	4	(RF or (radio adj frequency)) same ((three or plural\$3 or multiple or several) near3 (CMOS near2 transistor\$1))	US-PGPUB; USPAT	OR	ON	2007/04/25 13:13
L38	50	switch same ((three or plural\$3 or multiple or several) near3 (CMOS near2 transistor\$1))	US-PGPUB; USPAT	OR	ON	2007/04/25 13:12
L39	3	38 and (RF)	US-PGPUB; USPAT	OR	ON	2007/04/25 15:07
L42	22	(RF adj switch) with mixer with antenna	US-PGPUB; USPAT	OR	ON	2007/04/25 16:46
L43	1	42 and (ultra\$1wideband or carrier\$1free or carrierless)	US-PGPUB; USPAT	OR	ON	2007/04/25 16:49
L44	0	42 and (carrier\$1free or carrierless)	US-PGPUB; USPAT	OR	ON	2007/04/25 16:48
L45	0	42 and (impulse near4 communicatio)	US-PGPUB; USPAT	OR	ON	2007/04/25 16:49

## EAST Search History

L46	0	42 and (impulse near4 communication)	US-PGPUB; USPAT	OR	ON	2007/04/25 16:49
L47	1	42 and (wideband)	US-PGPUB; USPAT	OR	ON	2007/04/25 16:49
L60	364078	TINSLEY\$-KEITH R.inv.	US-PGPUB; USPAT	OR	ON	2007/04/25 17:50
L61	0	TINSLEY\$-KEITH.inv.	US-PGPUB; USPAT	OR	ON	2007/04/25 17:50
L62	12	TINSLEY\$-R.inv.	US-PGPUB; USPAT	OR	ON	2007/04/25 17:52
L63	32	HO\$-MINNIE.inv.	US-PGPUB; USPAT	OR	ON	2007/04/25 17:53
L64	868	GREEN\$-R.inv.	US-PGPUB; USPAT	OR	ON	2007/04/25 17:54
L65	4	GREEN\$-EVAN.inv.	US-PGPUB; USPAT	OR	ON	2007/04/25 17:54
S1	1941	(ultra\$1wideband)	US-PGPUB; USPAT	OR	ON	2007/04/19 17:15
S2	1	S1 and (carrier adj signal) same (select\$3 near frequency) same (window near function)	US-PGPUB; USPAT	OR	ON	2007/04/19 15:42
S3	1	S1 and (window near function) same (sinusoidal)	US-PGPUB; USPAT	OR	ON	2007/04/19 15:43
S4	19	S1 and (window near function)	US-PGPUB; USPAT	OR	ON	2007/04/19 15:44
S5	1	S1 and (carrier near signal) same (window near function)	US-PGPUB; USPAT	OR	ON	2007/04/19 15:44
S6	2	(ultra\$1wideband) same (carrier adj signal) same frequency and window	US-PGPUB; USPAT	OR	ON	2007/04/19 16:38
S7	14	(ultra\$1wideband) same (carrier adj signal) same (frequency)	US-PGPUB; USPAT	OR	ON	2007/04/19 16:46
S8	4	(ultra\$1wideband) and (carrier adj signal) with (( select\$2 or fix\$2) near frequency)	US-PGPUB; USPAT	OR	ON	2007/04/19 17:07
S9	1	(ultra\$1wideband) and (carrier adj1 signal) with ((fixed or selected) near frequency)	US-PGPUB; USPAT	OR	ON	2007/04/19 17:09
S10	0	(ultra\$1wideband) and (carrier adj1 signal) with ((fixed) near frequency)	US-PGPUB; USPAT	OR	ON	2007/04/19 17:10
S11	4	(ultra\$1wideband) and (carrier adj1 signal) same ((fixed or selected) near frequency)	US-PGPUB; USPAT	OR	ON	2007/04/19 17:15
S12	1	(ultra\$1wideband) and (window adj1 function) same (sinusoidal) and (hamming or hanning or blackman)	US-PGPUB; USPAT	OR	ON	2007/04/19 17:42

## EAST Search History

S13	1	(ultra\$1wideband) and (window adj1 function) same (sine) and (hamming or hanning or blackman)	US-PGPUB; USPAT	OR	ON	2007/04/19 17:17
S14	76	(window adj1 function) same (sine or sinusoidal) and (hamming or hanning or blackman)	US-PGPUB; USPAT	OR	ON	2007/04/19 17:22
S15	5	S14 and (wideband)	US-PGPUB; USPAT	OR	ON	2007/04/19 17:22
S16	1	shap\$2 same (carrier adj signal) same (window adj function) same (ultra\$1wideband)	US-PGPUB; USPAT	OR	ON	2007/04/20 13:49
S17	1	(form\$2 or figur\$2) same (carrier adj signal) same (window adj function) same (ultra\$1wideband)	US-PGPUB; USPAT	OR	ON	2007/04/19 17:41
S18	1	(carrier adj signal) same (window adj function) same (ultra\$1wideband)	US-PGPUB; USPAT	OR	ON	2007/04/19 17:41
S19	0	(ultra\$1wideband) and shape near (carrier adj signal)	US-PGPUB; USPAT	OR	ON	2007/04/19 17:43
S20	1	(ultra\$1wideband) and (shaping or fixing or figuring) near (carrier adj signal)	US-PGPUB; USPAT	OR	ON	2007/04/19 17:43
S21	18	S1 and (window adj function) and frequency	US-PGPUB; USPAT	OR	ON	2007/04/19 17:48
S22	1	(ultra\$1wideband) and (signal near generat\$4) same (sine or sinusoidal) near (window adj function)	US-PGPUB; USPAT	OR	ON	2007/04/20 10:57
S23	61	(ultra\$1wideband) and (signal near generat\$4) same (sine or sinusoidal)	US-PGPUB; USPAT	OR	ON	2007/04/20 11:09
S24	24	S23 and window	US-PGPUB; USPAT	OR	ON	2007/04/20 10:58
S25	1	(ultra\$1wideband) and (signal near generat\$4) same (sine or sinusoidal) near (window adj function)	US-PGPUB; USPAT	OR	ON	2007/04/20 11:12
S26	1	(signal near generat\$4) same (sine or sinusoidal) near (window adj function)	US-PGPUB; USPAT	OR	ON	2007/04/20 11:09
S27	1	(ultra\$1wideband) and (signal near generat\$4) same (sine or sinusoidal) same (window adj function)	US-PGPUB; USPAT	OR	ON	2007/04/20 11:13

## EAST Search History

S28	4	(ultra\$1wideband) and (signal near generat\$4) same (sine or sinusoidal) and (window adj function)	US-PGPUB; USPAT	OR	ON	2007/04/20 12:42
S29	1	(ultra\$1wideband) and (signal near generat\$4) same (window adj function)	US-PGPUB; USPAT	OR	ON	2007/04/20 12:52
S30	117	(signal near generat\$4) same (window adj function)	US-PGPUB; USPAT	OR	ON	2007/04/20 12:58
S31	39	S30 and (sine or sinusoidal)	US-PGPUB; USPAT	OR	ON	2007/04/20 12:52
S32	65	(signal near generat\$4) with (window adj function)	US-PGPUB; USPAT	OR	ON	2007/04/20 12:59
S33	1	(ultra\$1wideband) and (signal near generat\$4) with (window adj function)	US-PGPUB; USPAT	OR	ON	2007/04/20 13:00
S34	1	(mixer or combiner) same (window adj function) same (carrier adj signal)	US-PGPUB; USPAT	OR	ON	2007/04/20 13:02
S35	1	(mixer or combiner) same (window\$2 adj function) same (carrier adj2 signal)	US-PGPUB; USPAT	OR	ON	2007/04/20 13:03
S36	32	(mixer or combiner) same (window\$2 adj function)	US-PGPUB; USPAT	OR	ON	2007/04/20 13:07
S37	1	(ultra\$1wideband) and (mixer or combiner) same (window\$2 adj function)	US-PGPUB; USPAT	OR	ON	2007/04/20 13:08
S38	24	(mixer or combiner) same (window\$2 adj function) same (carrier signal)	US-PGPUB; USPAT	OR	ON	2007/04/20 13:11
S39	1	(mixer or combiner) same (window\$2 adj function) same (carrier adj signal)	US-PGPUB; USPAT	OR	ON	2007/04/20 13:11
S40	1	(mixer or combiner) same (window\$2 adj function) same (multi\$1carrier)	US-PGPUB; USPAT	OR	ON	2007/04/20 13:11
S41	1	(mixer or combiner) same (window\$2 adj function) and (multi\$1carrier)	US-PGPUB; USPAT	OR	ON	2007/04/20 13:11
S42	144	(sine or sinusoidal) with (window adj function)	US-PGPUB; USPAT	OR	ON	2007/04/20 13:27
S43	1	S42 and (ultra\$1wideband)	US-PGPUB; USPAT	OR	ON	2007/04/20 13:26
S44	58	(sine or sinusoidal) adj3 (window adj function)	US-PGPUB; USPAT	OR	ON	2007/04/20 13:34

## EAST Search History

S45	1	(sine or sinusoidal) adj3 (window adj function) with mixer	US-PGPUB; USPAT	OR	ON	2007/04/20 13:34
S46	1	(sine or sinusoidal) adj3 (window adj function) same mixer	US-PGPUB; USPAT	OR	ON	2007/04/20 13:34
S47	101	(signal adj generat\$4) same (window adj function)	US-PGPUB; USPAT	OR	ON	2007/04/20 13:50
S48	34	S47 and (sine or sinusoidal)	US-PGPUB; USPAT	OR	ON	2007/04/20 13:51
S49	0	generator near sinusoidal near window adj function	US-PGPUB; USPAT	OR	ON	2007/04/20 14:50
S50	3	signal same sinusoidal near window adj function	US-PGPUB; USPAT	OR	ON	2007/04/20 15:11
S51	1	"20050221760"	US-PGPUB; USPAT	OR	ON	2007/04/21 14:24
S52	133	ultra\$1wideband and mixer and CMOS	US-PGPUB; USPAT	OR	ON	2007/04/20 17:21
S53	2	S52 and (window adj1 function)	US-PGPUB; USPAT	OR	ON	2007/04/20 17:22
S54	64	(generat\$3) same (sinusoidal or sine) same (window adj function)	US-PGPUB; USPAT	OR	ON	2007/04/21 11:53
S55	6	(RF near switch) same (P\$1FET) same (N\$1FET)	US-PGPUB; USPAT	OR	ON	2007/04/21 13:23
S56	8	(RF near switch) and (P\$1FET) and (N\$1FET)	US-PGPUB; USPAT	OR	ON	2007/04/21 13:25
S57	4484	(P\$1FET) and (N\$1FET)	US-PGPUB; USPAT	OR	ON	2007/04/21 13:25
S58	1	S57 and (ultra\$1wideband)	US-PGPUB; USPAT	OR	ON	2007/04/21 14:12
S59	385	S57 and (RF or (radio adj frequency))	US-PGPUB; USPAT	OR	ON	2007/04/21 13:30
S60	180	S59 and (voltage near source)	US-PGPUB; USPAT	OR	ON	2007/04/21 13:48
S61	298	S59 and (voltage and gate and drain and source)	US-PGPUB; USPAT	OR	ON	2007/04/21 13:49
S62	58	S57 and (wideband)	US-PGPUB; USPAT	OR	ON	2007/04/21 14:12
S63	4	(RF or (radio and frequency)) adj switch same (ultra\$1wideband)	US-PGPUB; USPAT	OR	ON	2007/04/21 14:17
S64	1	(RF or (radio and frequency)) adj switch same (gate) same (ultra\$1wideband)	US-PGPUB; USPAT	OR	ON	2007/04/21 14:18
S65	1	(RF or (radio and frequency)) adj switch same (gate) and (ultra\$1wideband)	US-PGPUB; USPAT	OR	ON	2007/04/21 14:18

## EAST Search History

S66	628	(RF or (radio and frequency)) same(ultra\$1wideband)	US-PGPUB; USPAT	OR	ON	2007/04/21 14:18
S67	27	(RF or (radio and frequency)) same gate same (ultra\$1wideband)	US-PGPUB; USPAT	OR	ON	2007/04/21 14:20
S68	5	(RF or (radio and frequency)) with gate same (ultra\$1wideband)	US-PGPUB; USPAT	OR	ON	2007/04/21 14:20
S69	8	(single or double) same (mixer or combiner) same (cascade near amplifier\$2)	US-PGPUB; USPAT	OR	ON	2007/04/21 14:31
S70	1006	(single\$1balance\$2 or double) near (mixer)	US-PGPUB; USPAT	OR	ON	2007/04/21 14:32
S71	591	(single\$1balance\$2 or double\$1balance\$2) near (mixer)	US-PGPUB; USPAT	OR	ON	2007/04/21 14:32
S72	9	S71 and (ultra\$1wideband)	US-PGPUB; USPAT	OR	ON	2007/04/21 14:32
S73	1	"20040174928"	US-PGPUB; USPAT	OR	ON	2007/04/21 15:48
S74	73	(RF adj switch) same (CMOS)	US-PGPUB; USPAT	OR	ON	2007/04/21 15:49
S75	30	(RF adj switch) same (CMOS) same transistors	US-PGPUB; USPAT	OR	ON	2007/04/21 15:58
S76	2	(RF adj switch) same (compris\$3) same (CMOS) with transistors	US-PGPUB; USPAT	OR	ON	2007/04/21 15:59
S77	98	(RF or (radio adj frequency) adj switch) same (compris\$3) same (CMOS) with transistors	US-PGPUB; USPAT	OR	ON	2007/04/21 16:14
S78	2	(RF or (radio adj frequency)) adj switch same (compris\$3) same (CMOS) with transistors	US-PGPUB; USPAT	OR	ON	2007/04/21 16:12
S79	2037	(RF or (radio adj frequency) adj switch) with (CMOS)	US-PGPUB; USPAT	OR	ON	2007/04/21 16:14
S80	33	(RF or (radio adj frequency)) adj switch with (CMOS)	US-PGPUB; USPAT	OR	ON	2007/04/21 16:21
S81	4	(RF or (radio adj frequency))near compris\$2 with (CMOS)	US-PGPUB; USPAT	OR	ON	2007/04/21 16:22
S82	659	(RF or (radio adj frequency)) near (CMOS)	US-PGPUB; USPAT	OR	ON	2007/04/21 16:22
S83	2	(RF or (radio adj frequency)) near (CMOS) adj transistors	US-PGPUB; USPAT	OR	ON	2007/04/21 16:24
S84	2	(RF or (radio adj frequency)) near (CMOS) near transistors	US-PGPUB; USPAT	OR	ON	2007/04/21 16:24
S85	74	(RF or (radio adj frequency)) with(CMOS) near transistors	US-PGPUB; USPAT	OR	ON	2007/04/21 16:48
S86	4	(sinusoidal or sine) with (window adj shap\$3) same (frequency)	US-PGPUB; USPAT	OR	ON	2007/04/21 18:20